CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/GR/W.No.08/CSR-09/139c/CEMENT/2016-17 Date: 11.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY		**Mr. Gnanendra Reddy,** Contractor, Bangalore.
*NAME OF THE WORK	:	Construction of Drain connecting B.B. Nagara to Sonnegowda Layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
REFERENCE		EE/BTP/BBMP/E-PMT/240/2015-16 Dated: 26.02.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	09.09.2016
PERIOD OF TESTING	:	09.09.2016 to 11.09.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/GR/W.No.08/CSR-09/139c/SAND-Gradation/2016-17 : 11.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Gnanendra Reddy,** Contractor, Bangalore.

*** Name of Work** : Construction of Drain connecting B.B. Nagara to Sonnegowda Layout in Ward No.08, Kodigehalli, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/240/2015-16 Dated: 26.02.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 09.09.2016

Date of Testing : 11.09.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	74.70	60-95	75-100	85-100	95-100
1.18	53.50	30-70	55-90	75-100	90-100
600 Micron	24.90	15-34	35-59	60-79	80-100
300 Micron	9.60	5-20	8-30	12-40	15-50
150 Micron	3.20	0-10	0-10	0-10	0-15

AE-8

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/GR/W.No.08/CSR-09/139c/AGG/GR/2016-17 : 11.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Gnanendra Reddy,** Contractor, Bangalore.

*** Name of Work** : Construction of Drain connecting B.B. Nagara to Sonnegowda Layout in Ward No.08, Kodigehalli, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/240/2015-16 Dated: 26.02.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 09.09.2016

Date of Testing : 11.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.30	95-100	85-100
20	35.30	30-70	0-20
10	12.80	10-35	0-5
4.75	3.30	0-5	-

AE-8

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/GR/W.No.08/CSR-09/139c/CUBE/2016-17 16.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. Gnanendra Reddy,** Contractor, Bangalore.
***Name of the work**	: Construction of Drain connecting B.B. Nagara to Sonnegowda Layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/240/2015-16 Dated: 26.02.2016
***Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 16.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2016	16.10.2016	8.163	363.5	16.16
2	18.09.2016	16.10.2016	8.247	376.2	16.72
3	18.09.2016	16.10.2016	8.365	389.7	17.32

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. Gnanendra Reddy,** Contractor, Bangalore.
***Name of the work**	: Construction of Drain connecting B.B. Nagara to Sonnegowda Layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/240/2015-16 Dated: 26.02.2016
***Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 16.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2016	16.10.2016	8.263	372.5	16.56
2	18.09.2016	16.10.2016	8.394	385.2	17.12
3	18.09.2016	16.10.2016	8.452	399.8	17.77

AE-8

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. Gnanendra Reddy,** Contractor, Bangalore.
***Name of the work**	: Construction of Drain connecting B.B. Nagara to Sonnegowda Layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/240/2015-16 Dated: 26.02.2016
***Sample ID**	: Covering Slab Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 18.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.09.2016	18.10.2016	8.357	474.7	21.10
2	20.09.2016	18.10.2016	8.215	496.5	22.07
3	20.09.2016	18.10.2016	8.482	500.2	22.23

AE-B

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